

World Geography: Inside the Earth Study Guide

Page 1: Key Concepts Summary

🌍 Layers of the Earth:

- **Core:** The innermost layer made of iron and nickel.
- **Mantle:** Semi-solid layer beneath the crust, where convection currents occur.
- **Crust/Lithosphere:** Solid outermost layer; includes tectonic plates.

🌐 Earth's Spheres:

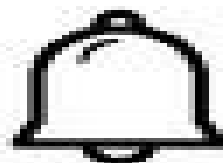
- **Lithosphere:** Solid rock portion of the Earth.
- **Hydrosphere:** All water on Earth (oceans, rivers, lakes).
- **Atmosphere:** Layer of gases, contains oxygen and protects Earth.
- **Biosphere:** Regions where life exists (plants, animals, humans).

🌐 Plate Tectonics & Movement:

- **Plate Tectonics:** Theory that Earth's crust is broken into plates that move.
- **Types of Boundaries:** Convergent (collide), Divergent (separate), Transform (slide past).
- **Earthquakes:** Caused by plate movement; measured by the Richter Scale.
- **Epicenter:** Surface location directly above the earthquake's origin.
- **Seismograph:** Device that measures earthquake waves.

🌋 Earth Surface Processes:

- **Volcano:** Opening in Earth's surface where magma escapes.
- **Tsunami:** Giant wave usually caused by an underwater earthquake.
- **Weathering:** Breaking down of rocks.
- **Erosion:** Movement of weathered material by wind, water, ice, or gravity.
- **Chemical Weathering:** Rock changes into new substance through reactions.
- **Sediment:** Broken down rock particles.
- **Humus:** Organic matter in soil.
- **Moraine:** Rock debris left by glaciers.
- **Continental Drift:** Theory that continents have moved over time.
- **Ring of Fire:** Area in Pacific Ocean with frequent volcanoes and earthquakes.



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Understanding Earth Study Guide

John Grotzinger, Thomas H. Jordan



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